

Summary

[Objectives] Strengthening, cost reduction, and improvement of press formability and bake hardenability of aluminum alloy sheets.

[Means for achieving objectives] A manufacturing method for Al-Mg-Si aluminum alloy sheet with excellent bake hardenability, characterized by twin belt casting a molten Al-Mg-Si aluminum alloy containing Mg: 0.3 – 1.0 wt%, Si: 0.3 – 1.5 wt%, Cu: 1.0 wt% or below (including 0%), and Fe: 1.2 wt% or below (including 0%), and containing Mn: 0.1 – 0.7 wt% and/or Cr: 0.1 – 0.3% according to need, and the remnant being Al at an average cooling rate of 20 degrees C or above, and at that time, making the temperature of the ingot as it comes out of the casting machine 250 degrees C or below, and then rolling to the final sheet thickness by cold rolling only and without homogenization or hot rolling, and solution treatment being done in a continuous annealing furnace.

[Selected Diagrams] None